



Voice Recorder with Multifunction

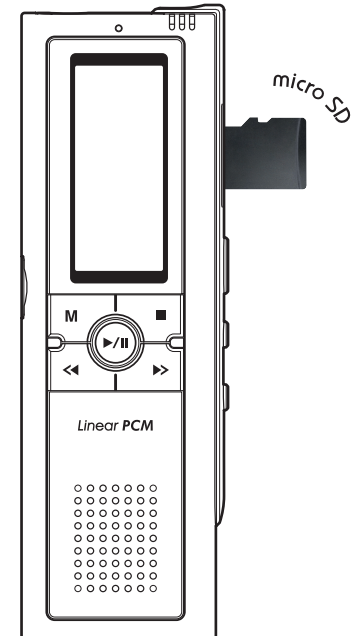
*Linear PCM*

**DDR-5300**

## User Manual



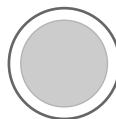
Diasonic Technology Co.,Ltd.



Please read this instruction manual carefully before using the digital voice recorder and retain the instruction manual for the future reference.

## Preface

Thank you for purchasing DDR-5300 manufactured by Diasonic Technology Co., Ltd. Please read this manual before using the product. Store this manual in a safe place as this manual contains important information for the operation of the product.



## Copyrights

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- Use of MP3 files is limited to the personal purposes only. Servicing or providing MP3 files for commercial purposes will be against the copyright act of Korea.
- Reproduction of files is prohibited for other than personal purposes by law.

## Safety Notes

- Do not store the device in any place with following conditions:
  - High temperature (60 °C or higher)
  - Exposure to the direct sun rays or a heating device
  - Inside the car with closed windows (especially, in the summer)
  - Humid place such as the bathroom
- When removing dust, use soft cloth in dry. Do not use organic solvents such as thinner or benzene or wet cloth.
- Do not place a debit card or a bus pass near the speakers. The magnetic interference may occur, which will damage the card.
- Do not place the device near a magnet. The speakers may not be workable.
- Diasonic Technology does not take any responsible for any damage caused by the use of this device or damage claim made by a third party.
- Diasonic Technology does not take any responsible for the loss of data caused by other actions than repair services by Diasonic Technology.
- Diasonic does not take any responsibility for the date stored or recorded in the device, so user must be careful to manage & keep the date.
- Do not repair, disassemble, or remodel the device.
- Do not use the product in a place where use of electronic devices is prohibited.
- Do not use this device while driving.
- Do not heat up or short the main body or the battery.
- When using an auxiliary device, leave a gap between the auxiliary device and the main device.
- Incorrect use of the product by the user or a third party or static electricity or electric shock loaded on the product may cause loss of or change in the data saved in the product during repair services or replacement of the battery.
- Keep the voice recorder out of reach of children.

## FCC (Federal Communications Commission)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures.

- Reposition or relocate the receiving antenna.
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/TV technician for help.

Modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

## Main Features

### I. Record

- Time Machine Rec. (Only Applicable in Recording Pause)  
Restart recording just after the paused point after checking what was the last recorded by playing back the previous recorded content for a specific time.
- Adding Rec.  
Adding additional content(s) at a desired point by recording something at the file in playback
- Rec. Monitoring while recording
- Timer Rec. (10 Presets)  
Start recording at a setting time
- Rec. Pause
- Automatic Folder Advance with Time & Date stamping (A/B/C/D Folder)
- Security Rec.: LCD Off while recording

### 1. Voice Recording

- Rec. Quality Selectable(PCM/HQ/SP/LP)  
PCM format: 1:1 recording quality for the best recording quality (similar to Natural Sound Quality)
- Internal Microphone Sensitivity Selectable(High/Low)
- ARS Mode(Automatic Recording System)
  - A Mode: "ARS" displayed. All sequent recording contents are recorded in 1 Index file.
  - B Mode: "ARS-B" displayed. Each recorded contents is made into independent file.

### 2. Direct encoding

- External Audio Source Recording thru Line-in Cable
- Audio Sync: By detecting the point of the end & the start of a music, automatically make new file.
- Additional Stereo External Microphone Applicable for capturing Stereo Sound
- FM Radio Rec.
- Telephone Conversation Rec.
- Cellular Phone Conversation Rec.
- Rec. Quality Selectable(SHQ/HQ/SP/LP)

## Main Features

### II. Play

- Various Alarm Setting: Specific Date/Daily/Weekly/Specific Time
- Various Play Mode: Normal One/Repeat One/Normal All/Repeat All/Shuffle
- Section Repeat
- Intro Play
- Various Equalizer: NORMAL/ROCK/POP/CLASSIC/JAZZ
- Resume Play: Play the file from a stopped point when turn-on again.

### III. FM Radio

- Worldwide, European or Japanese Frequency
- 10 Presets

### III. Other Features

- Huge Memory Capacity available  
Internal Memory: Flash Memory  
External Memory: MICRO SD, MICRO SDHC (Up to 16GB)
- Free Copying file(s) between SD card and Internal Memory
- Speaker On/Off
- Alarm-On at a setting time
- Time Clock
- Folder: A/B/C/D/EN(Encoding)/MP3/FM
- Remaining Memory Space Display
- Firmware Upgradeable easily
- Plug & Play: No required any additional installation driver
- Various Power-off Modes: Automatic off/Sleeping off
- Hold On/Off for preventing from unexpected operation
- External Speaker(0.3W/0.8ohm)
- USB 2.0
- Compatible PC O/S: Windows ME, 2000, XP, and Vista, More than MAC OS X 10.2

### IV. Enhanced File Editing in the device

- Dividing File
- Adding a recording contents in a current file
- Overwriting a new content over a current file
- Erasing a file or All
- Copy file(s) between SD card and Internal memory

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- |                    |                 |
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##### PLAY Mode . . . . . 25

- (1) Key Function
- (2) How to operate

- |   |                      |
|---|----------------------|
| ① Play a file repeatedly in a section (A↔B) | ④ Play Speed Control |
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| ③ Volume Up & Down                          |                      |

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- ⑥ Resume Recording
- ⑦ ARS
- ⑧ SECU(Security Recording)

#### (3) Various Recording Methods

- ① Voice Recording thru Internal Mic.
- ② Voice Recording thru External Mic.
- ③ Voice Recording thru Telephone adaptor(Optional Accessory)
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#### STOP Mode

#### PLAY

#### Record Mode

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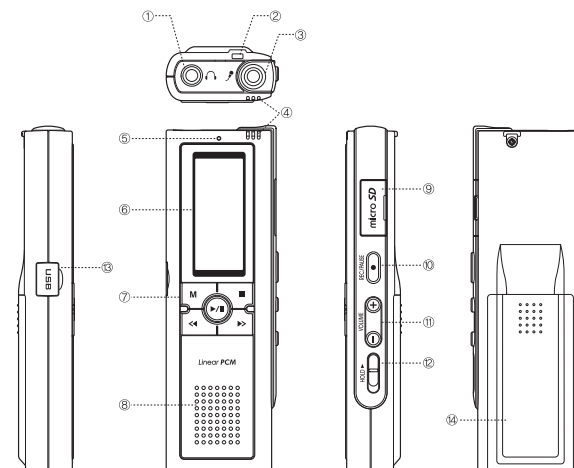
- 1) ARS Mode
- 2) Operation

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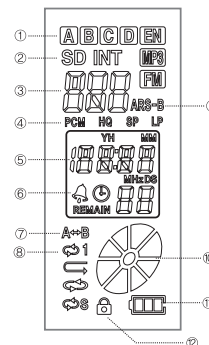
## Component and LCD Display

### 1. Set



- |                            |                       |
|----------------------------|-----------------------|
| ① Earphone Jack            | ⑧ Internal Speaker    |
| ② Strap Holder             | ⑨ micro SD card slot  |
| ③ External Microphone      | ⑩ Rec/Pause           |
| ④ Internal Microphone      | ⑪ Volume Key          |
| ⑤ Recording Indicator(LED) | ⑫ Hold Key            |
| ⑥ LCD Display              | ⑬ USB Jack            |
| ⑦ Operating Keys           | ⑭ Battery Compartment |

### 2. LCD



- |                              |                              |
|------------------------------|------------------------------|
| ① Folder & FM Radio mode     | ⑦ Section Repeat             |
| ② Current Selected Memory    | ⑧ Play Option                |
| ③ File Index                 | ⑨ ARS                        |
| ④ Recording Quality & Format | ⑩ Operating Status Indicator |
| ⑤ Time/Date/FM Frequency     | ⑪ Battery Level Indicator    |
| ⑥ Alarm/Timer Recording      | ⑫ Hold On                    |

### 3. Package

#### (1) Basic Accessory



#### (2) Optional Accessory



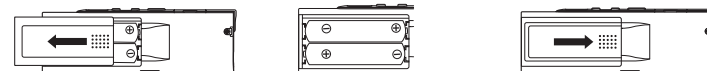
According to the package, optional items should be purchased separately. Please call or ask availability to buy to retailer.

## Power Supply

### 1. Battery

LR03 type (or UM4 type) 2pcs of AAA size Battery.

#### ■ Inserting Battery



- ① Press down the battery cover lightly and then slide cover to the direction.
- ② Insert two batteries with correct polarity.
- ③ Close the battery cover completely to the direction.

It does not recharge the battery.

If there is some unusual while using battery, remove batteries immediately with careful not to hurt yourself.

#### ■ Battery Life Time

Recording	Playing	Radio Reception
20hrs	20hrs	17hrs

The battery life time may be different according to setup condition.

The above time is based on volume at mid & listening thru earphone.

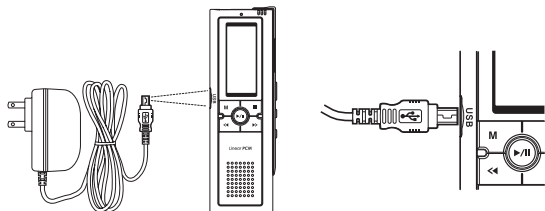
#### ■ Battery Power Remaining Status

	Full Charge		Some Power Consumed
	Power almost drained		No Power

- Before recording or Timer recording, make sure the battery power enough to keep.
- We recommend not to use rechargeable battery when an important recording is carried on because it loses its power level down at a certain point suddenly.
- If it would not be used for a while, please take the batteries out of the compartment. The leakage from the batteries may cause serious problem to the recorder.

## 2. AC/DC Adaptor

When plugging AC/DC Adaptor, "Full Battery" mark displays on the LCD.  
Before plugging AC/DC adaptor, please make sure its electrical rate(DC 4.5V 300mA) correct.

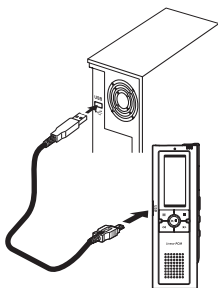


AC/DC adaptor is basically optional accessory, so it may be purchased separately.  
Please call or ask availability to buy to reseller.

## 3. USB Connection

### (1) Connecting to PC

- 1 Connect the USB cable to the USB port at the side of the voice recorder.
- 2 Connect the other end of the USB cable to the PC.  
PC operating system (Windows ME, 2000, XP and Vista, More than MAX OS X 10.2) automatically detects the voice recorder.



- 3 When connecting to PC thru USB cable, "USB" displays on the LCD.



- While connecting it to PC, it is not workable. If returning to the normal operation, it must be disconnected from the PC.  
It does not support older than Window ME.

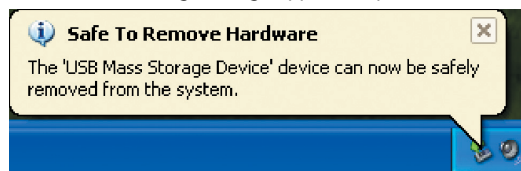
### (2) Disconnecting from PC

Before removing the voice recorder, disconnect the cable following to the below procedure first. Otherwise, the data may be lost or damaged.

- 1 Close all files. When a file or folder is open, the voice recorder will not be properly removed from the PC.
- 2 Left-click on the icon displayed on the lower-right corner of the screen.



- 3 When the following message appears, separate the voice recorder from the PC.



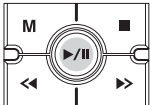
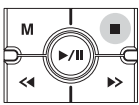


## Quick Start

### Note: Term Explanation

- Short Key: Press & Hold button for less than 1 second
- Long Key: Press & Hold button for more than 2 seconds




## 1. Power On/Off

Turn On	Turn Off
	
Press ►/   with long key.	Press ■ with long key.

☞ If powering off automatically just after display appears, please check below things.

- Not enough power to keep on.
- Hold on
- No memory space
- File Index Full





## 2. Basic Key Operation

	Shot Key	Long Key
►/	Select or Pause	Power On
M	Change folder(A/B/C/D/EN/MP3) or FM Radio	Enter into Mode
◀◀	Move to previous mode / option / file / frequency in step	Fast move to previous mode / option / file / Auto frequency Searching
▶▶	Move to next mode/option/file/frequency in step	Fast move to the next mode / option / file / Auto frequency Searching
■	Check Date/Time/Day Return to main display	Power Off
	Recording or Pause in Recording	Recording or Pause in Recording
	Volume Up or down(Level 0-20)	Successively Volume Up or Down
	Hold	X

## 3. Recording

### (1) Select Folder

Press "M" with short key to move to a desired folder to store file in recording or play a file(s).

LCD Display	Description
	<ul style="list-style-type: none"> <li>• Folder Name: Voice Folder</li> <li>• Recording file in voice thru int. mic, Ext. Mic, Telephone adaptor is stored to A, B, C, or D according to current selected folder.</li> <li>• Max. file: 256files each folder</li> </ul>
	<ul style="list-style-type: none"> <li>• Folder Name: Encoding Folder</li> <li>• Recording file thru Line-in, FM is stored.</li> <li>• Max. files: 256files</li> </ul>
	<ul style="list-style-type: none"> <li>• Folder Name: MP3 Folder</li> <li>• User can store any file(s) from PC.</li> <li>• Max. files: 999files</li> </ul>
	<ul style="list-style-type: none"> <li>• FM Radio Mode (Option)</li> </ul>

☞ To get the best recording quality for each mode, a proper option should be set up.

- Factory default for recording method is set up thru internal mic.
- Audio-in, Ext. Mic or Telephone adaptor should be selected at the mode if recording thru one of those.

### (2) Voice Recording thru Internal Mic.

- ① Make sure the folder (A, B, C, or D) to store recorded file.
- ② Press "REC/PAUSE" to start recording.
- ③ Press "REC/PAUSE" once again to pause recording.
- ④ Press " " to stop recording.

☞ If there is no connection of an external devices thru Audio cable after External Mic or Telephone Adaptor is selected, automatically it is recorded thru internal mic. in mono.

☞ It does not save the file recorded 3 seconds or less.

☞ Confirm the battery indicator before starting recording. While recording, the recorded file can not be saved when power is off.

### (3) Voice Recording thru External Mic.

#### ① Setup

Press "**M**" with long key and then move to "LINE" by << or >> .  
Press "**▶/||**" to enter into lower option and move to "EMIC" by << or >> .  
Press "**▶/||**" to select External Mic. and select Mono mic.(MO) or Stereo mic.(St)  
by << or >> and then Press "**▶/||**" to complete.  
Press "**■**" to Main display.

#### ② Start Recording

Make sure the folder (A, B, C, or D) to store recorded file.  
Connect External Mic.(Mono or Stereo) to Mic. Jack on the top of the voice recorder.  
Press "REC/PAUSE" to start recording.  
Press "REC/PAUSE" once again to pause recording.

### (4) Voice Recording thru Telephone adaptor(Optional Accessory)

#### ① Setup

Press "**M**" with long key and then move to "LINE" by << or >> .  
Press "**▶/||**" to enter into lower option and move to "tEL"(Telephone Adaptor)  
by << or >> .  
Press "**▶/||**" to select Telephone adaptor then Press "**▶/||**" to complete.  
Press "**■**" to Main display.

#### ② Start Recording

Make sure the folder (A, B, C, or D) to store recorded file.  
Connect Telephone Adaptor to Mic. Jack on the top of the voice recorder.  
Press "REC/PAUSE" to start recording.  
Press "REC/PAUSE" once again to pause recording.  
▶ A file thru telephone adaptor is recorded in stereo.

### (5) Creating Audio file from another audio player with Line -in

#### ① Setup

Press "**M**" with long key and then move to "LINE" by << or >> .  
Press "**▶/||**" to enter into lower option and move to "AUD"(Line -in) by << or >> .  
Press "**▶/||**" to select Line -in then Press "**▶/||**" to complete.  
Press "**■**" to Main display.

#### ② Start Recording

Make sure to select "EN" folder to store recorded file.  
Connect the other audio player to Mic. Jack on the top of the voice recorder with Audio cable.  
Press "REC/PAUSE" to start recording.  
Play the other player.  
▶ It prevents from making a missing part of content to play external audio player later than press "REC" in Voice Recorder.  
Press "REC/PAUSE" once again to pause recording  
▶ A file thru Line -in is recorded in stereo and stored at "EN"(Encoding folder).

### (6) Recording FM Radio(Optional Feature)

#### ① Setup

Connect Wired FM Antenna(or earphone) to earphone jack on the top of the voice recorder.  
Move to "FM" by pressing "**M**" with short key.  
Select a desired radio station to record by << or >> .

#### ② Start Recording

Press "REC/PAUSE" to start recording.  
Press "REC/PAUSE" once again to pause recording.  
▶ A file is recorded in stereo and stored at EN"(Encoding folder).

## 4. Playing

### (1) Select Folder

Press "**M**" with short key to move to desired folder to contain file to play back.

LCD Display	Description
<b>A B C D</b>	<ul style="list-style-type: none"><li>Folder Name: Voice Folder</li><li>Storing file(s) to be recorded thru Internal Mic., External Mic., Audio-in or Telephone Adaptor.</li></ul>
<b>EN</b>	<ul style="list-style-type: none"><li>Folder Name: Encoding Folder</li><li>Storing file(s) to be recorded thru Line-in, FM Radio.</li></ul>
<b>MP3</b>	<ul style="list-style-type: none"><li>Folder Name: MP3 Folder</li><li>File(s) downloaded from PC.</li></ul>

## (2) Playback

Move to a file to play by ◀◀ or ▶▶ and then press "▶/II" to select.

Stop by "■"

Pause by "▶/II"

FF(Fast Forward) by "▶▶" with long key

REW(Rewind) by "◀◀" with long key

Move to the next file by "▶▶" with short key

Move to the previous file by "◀◀" with short key

☞ In stop, "◀◀ or ▶▶" is performed only for moving to the next file or the previous file.

## 5. FM Radio Reception (Optional Feature)

- The feature is optional, so it may not be available according to the model.

Plug external FM antenna or earphone to earphone jack on the top of the device.

Move to "FM" by "M".

## 6. Storage

### (1) Memory Type & Capacity

Internal Memory : Built-in Flash Memory

External Memory: micro SD, SDHC Card (Up to 16GB)

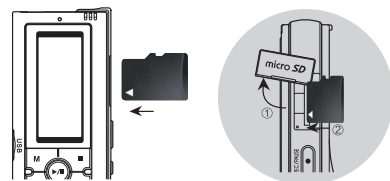
☞ Internal Memory Capacity is different according to the model.

External memory should be purchased separately at a shop.

SDHC memory is compatible.

### (2) Insert micro SD card

- Make sure its direction to insert to micro SD card slot as below diagram.



- Hold micro SD card's face up and insert it straightly to the slot until micro SD card stopping with a click.

☞ Do not insert or extract micro SD Card in the recorder's power-on.

- If inserting micro SD card in wrong way or inclined angle, the contact part of micro SD card could be damaged or jammed inside.
- If micro SD card may not be inserted correctly, it may not be readable.
- Do not eject SD card when it is performing operations such as recording, copy, move, erase and file combine. It may damage the DATA. Be sure to back up files.

### (3) Eject micro SD Card

- Push micro SD Card inward with finger quickly & smoothly, and it will be ejected partially.
- Hold the micro SD Card straight and pull it out.

### (4) Format

If micro SD card is brand-new(unformatted) or used one for the other devices, please format it on this device.

☞ Before formatting, make sure the stored file(s) in micro SD card is not necessary anymore. Otherwise, store the file(s) to the other storage or PC.

### (5) Select Memory (Internal memory or micro SD card)

①	②	③	④	⑤	⑥	⑦	⑧
Long Key	"◀◀ or ▶▶"	"◀◀ or ▶▶"	Short Key	"◀◀ or ▶▶"		Short Key	Short Key


### (6) No SD card in the slot

When micro SD card is selected without SD card in real, "NOSD" is blinking for 3 seconds and then shows up the display with "INT".

## 7. Time & Date Setup

Step	①	②	③	④
Display		MODE	TIME	SET
Key Operation	M with Long key	<< or >> with short key	▶/   with short key	▶/   with short key

### ⑤ Setting Date(Year->Month->Day)




① "Y"(Year) will be in blinking.

② Up or Down figure by << or >> .

③ Confirm a desired figure and then move to the next by ▶/|| .

### ⑥ Set Time(Hour->Minute->Second)

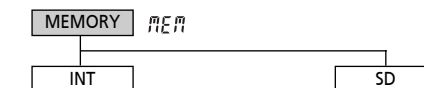
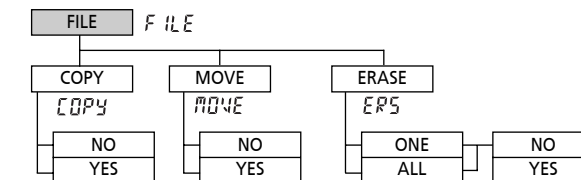
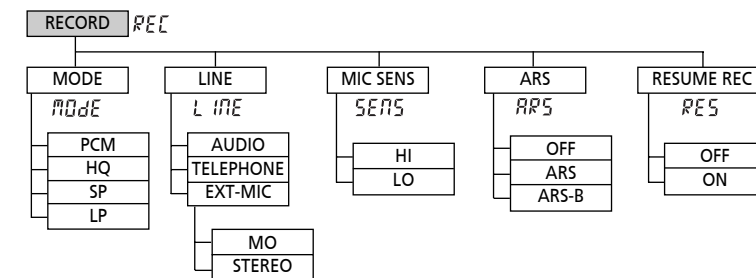
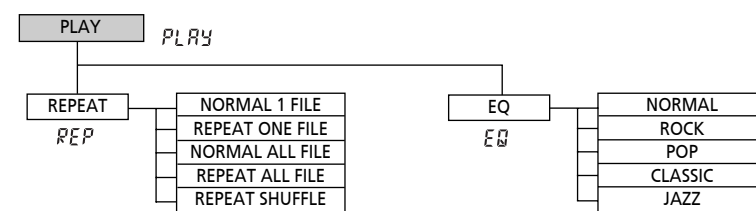


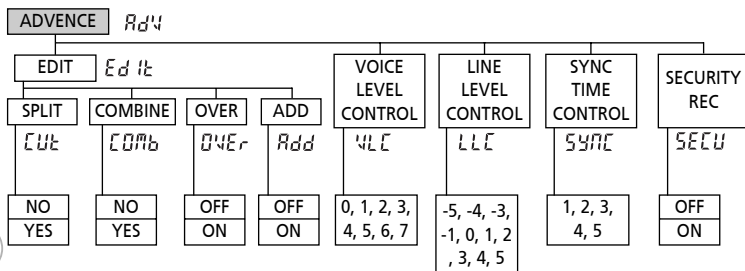
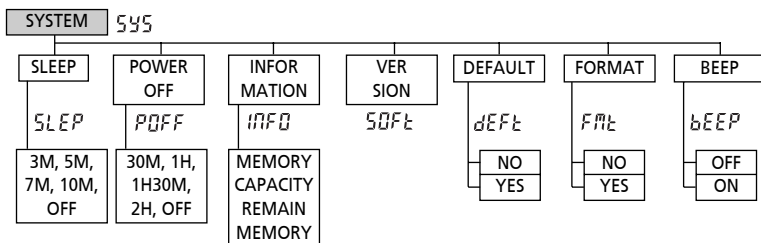
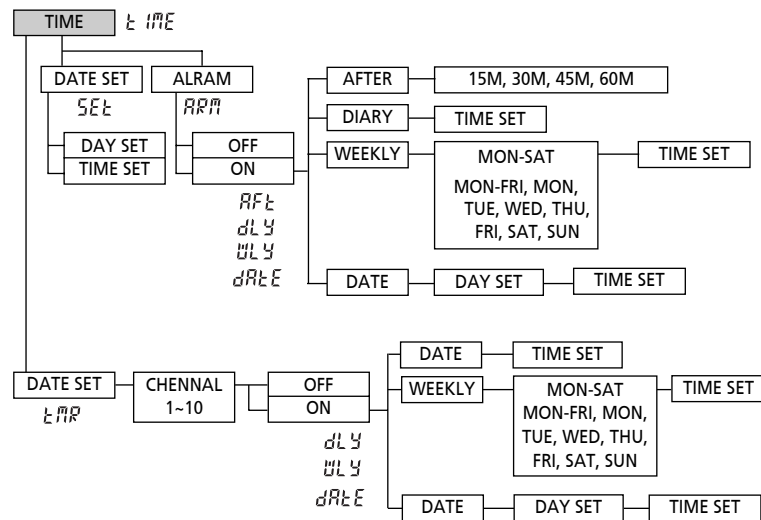
① "H"(Hour) will be in blinking.

② Up or Down figure by << or >> .

③ Confirm a desired figure and then move to the next by ▶/|| .

## 8. Menu Tree





## Functions & Operation according to Each Folder

### 1. Voice (A/B/C/D Folder)

#### ■ STOP Mode

##### (1) Key Function

Key	Operation	Description
PLAY/PAUSE	SHORT	Play a current selected file
	LONG	Play the beginning part of a file shortly(Intro Scan)
FF	SHORT	Move to the next file
	LONG	Move to the next file up sequentially until taking the key off
REW	SHORT	Move to the previous file
	LONG	Move to the previous file down sequentially until taking off
STOP	SHORT	Display Date
	LONG	Power Off
MENU	SHORT	Change folder & Mode(A, B, C, D, EN, MP3, FM)
	LONG	Enter into Menu
VOLUME +	SHORT	Volume up
	LONG	Volume up sequentially until taking the key off
VOLUME -	SHORT	Volume down
	LONG	Volume down sequentially until taking off
REC/PAUSE	SHORT	Start recording or Pause in recording
	LONG	X
HOLD		Hold On/Off

##### (2) How to operate in STOP mode

###### ① Check date & day

Press "■" with Short key. LCD display changes Time->Date->Day Sequentially whenever pressing "■".

Time	Date	Day			
		SUN	MON	TUE	WED
		Sunday	Monday	Tuesday	Wednesday
		THU	FRI	SAT	
		Thursday	Friday	Saturday	

###### ② Power Off

Press "■" with Long key.

### ③ Folder Selection

Press "M" key with short key until showing up a desired folder.(A->B->C->D->EN->MP3->FM)

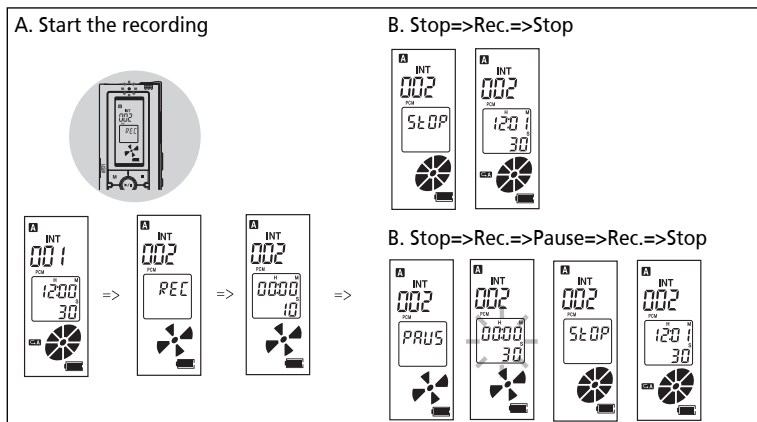
FM is not folder.If desiring to listen to FM radio, please select FM.

### ④ Volume Up & Down

Press Volume key for sound level up or down.

### ⑤ REC/PAUSE key

Press "REC/PAUSE" with short key.



- Recording starts with red LED on as the gray circle.
- While Pausing, LED keeps in Red with recording time blinking.
- If pressing "STOP", stop the recording in recoding or pausing.

### ⑥ Intro SCAN



- Press "▶/||" with long key.
- The Beginning part of file in 10sec. plays with "SCAN" and then Stop.(Intro Scan)
- While scanning a file, "FF" or "REW" works to play a next file or a previous file with index No. up or down(ex.001->002->003).

### ⑦ Setup Menu

Press "M" with long key for setting other options in detail.

"▶/||" key works for selecting a current menu or enter into lower menu. After selecting with "▶/||", it returns to a previous step.

If returning to main display, press "M" or "■" at anytime.

"◀ & ▶" are for moving to a previous or a next menu in same level.

## ■ PLAY Mode

### (1) Key Function

Key	Operation	Description
PLAY/PAUSE	SHORT	Play a current selected file
	LONG	Play the beginning part of a file shortly(Intro Scan)
FF	SHORT	Move to the next file
	LONG	Play file fast forward
REW	SHORT	Move to the previous file
	LONG	Play file fast backward
STOP	SHORT	Stop playing
	LONG	Power Off
MENU	SHORT	Section Repeat On/Off (A ↔ B)
	LONG	Enter into Menu
VOLUME +	SHORT	Volume Up
	LONG	Volume Up sequentially until taking the key off
VOLUME -	SHORT	Volume down
	LONG	Volume down until taking the key off
REC/PAUSE	SHORT	Select EQ(Normal->Rock->Pop->Classic->Jazz)
	LONG	Selecting Play Speed(Slow->Fast->Normal)
HOLD		Hold On/Off

### (2) How to operate

#### ① Play a file repeatedly in a section (A ↔ B)

Press "M" with short key at the point of start, then "A ↔ B" is blinking.

Press "M" with short key at the point of end, then "A ↔ B" is displayed without blinking.

If desiring to release "A ↔ B", press "M" with short key once again, then "A ↔ B" is disappeared.

#### ② File Repeat

"M" with long key=> Move to Play by "◀ or ▶"=> Press "▶/||"=>Move to REP by "◀ or ▶"=> Press "▶/||"=> Select a desired repeat option then Press "▶/||"=> "■" for completing setup.

#### ③ Volume Up & Down

Volume level can be adjustable from "0" to "20".

#### ④ Play Speed Control

While playing a file, play speed can be changeable by "REC/PAUSE" with long key.

Slow(70%)->Fast(130%)->Normal(100%)



### ■ Record Mode

#### (1) Key Function

Key	Operation	Description
PLAY/PAUSE	SHORT	Display Remaining Time to be able to record
	LONG	X
FF	SHORT	File Index up
	LONG	File Index up
REW	SHORT	X
	LONG	X
STOP	SHORT	Stop the recording
	LONG	Stop the recording
MENU	SHORT	X
	LONG	Change the recording sensitivity
VOLUME +	SHORT	Volume Up
	LONG	Volume Up sequentially until taking the key off
VOLUME -	SHORT	Volume down
	LONG	Volume down until taking the key off
REC/PAUSE	SHORT	Pause
	LONG	Pause
HOLD		Hold On/Off

#### (2) Preparation of recording

It can start recording by pressing "REC/PAUSE" at anytime without setting the next steps, but these may offer better condition to obtain the best recording quality.

#### ① Select Folder

Select a desired fold to record file( **A B C D** ) by pressing "M" with short key.

Recording file at voice mode thru int. mic, external mic, Telephone adaptor is stored to A, B, C, or D.

Each folder can store 256files in Max. and if number of recorded file is over than limitation(256pcs), automatically, move to the next folder and record.

#### ② Set up current Date & Time

#### ③ Select recording format

Press "M" with long key => Press "►/||" for selection of recording format(PCM/HQ/SP/LP) at **MODE** => Current selected format is blinking then press "◀ or ▶" for moving to desired format.=> Press "►/||" at a desired format.

PCM format provides with high quality equivalent to CD in recording, so when recording quality is more considerable other than recording time, PCM is preferable.

Format	PCM(mono)	HQ	SP	LP
Rec. Rate	44.1kHz/16bit	64Kbps	32Kbps	16Kbps
Rec. Time(1GB)	3.1hrs	34.8hrs	69.5hrs	139hrs

This table is based on mono recording, so when recording thru Stereo, PCM recording time should be in half of the time.

HQ, SP or LP is in same file size even if it records thru stereo.

The above recording time may be different according to recording condition.

#### ④ Select External Microphone

The recorder has a built-in mic.(Mono) in default and user can plug external mic.(Mono or Stereo) for better recording quality or special purpose.



This setup is for recording thru external mic. or external devices.

Even if this option is selected at the external mic. but if any external mic.(or any other external device) is not plugged in real, the built-in mic.(mono) works regardless of the setup.

Press "M" with long key => Move to **LINE** by "◀ or ▶" and then Press "►/||" => Move to **EXT MIC** then press "►/||" => Select **MONO** (Mono) or **STEREO** (Stereo) by "◀ or ▶" and then press "►/||".

## ⑤ Mic Sensitivity

It is applicable for the recording thru internal, external mic or telephone adaptor.

 High	Automatically control recording level to average sound level by detecting average sound level with ALC(Automatic Level Control) technology. This is proper for the recoding in conference room or meeting room, so that all recorded sound may be in similar level despite of distance from original sound source.
 Low	Recording at original sound level. This is proper for the recording in near area from the sound source.

## ⑥ Resume Recording (Time Machine Recording)




- When the recording restarts after pausing, first, replay a previous file for 30seconds and then record from the end of the paused point. This is good for making sure what the content was in previous recoding.

### • Setup

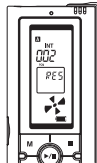
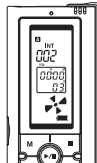

“M” with long key => Move to “RES”by “<< or >>” => press “▶/||” => Move to “On” by “<< or >>” and then select “On” by “▶/||”.

### • How to operate

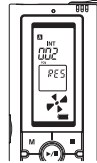
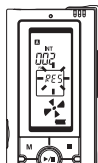

#### A. Record and then Pause

		
① Start Recording with RED LED On by pressing “REC/PAUSE”.	② Keep Recording. RED LED is keeping On.	③ Press “Pause”. Recorded time and RED LED are blinking.

## B-1. Restart the recording(Normal Recording)

		
④ Ask restarting the recording in normal or resume with “RES” on the display when pressing “REC” again. RED LED blinking.	⑤ Restart the recording immediately just after a previous paused point by pressing “REC”.	⑥ Stop recording by pressing “■”.

## B-2. Restart the recording(Resume Recording)

		
④ Ask restarting the recording in normal or resume with “RES” on the display when pressing “REC” again. RED LED blinking.	⑤ With “▶/  ”, play a previous recorded contents in 30sec before the paused point and after 30sec of playback, restart recording from the paused point(RED LED On again).	⑥ Stop the recording by pressing “■”.

## ⑦ ARS(Auto Recording System)

- This is the feature to start recording automatically by recognizing sound and if no sound, pause( or Stop) recording. According to sound or no sound, repeatedly record and pause(or Stop).
- With this feature, memory space, battery time can be saved by stopping or pausing.

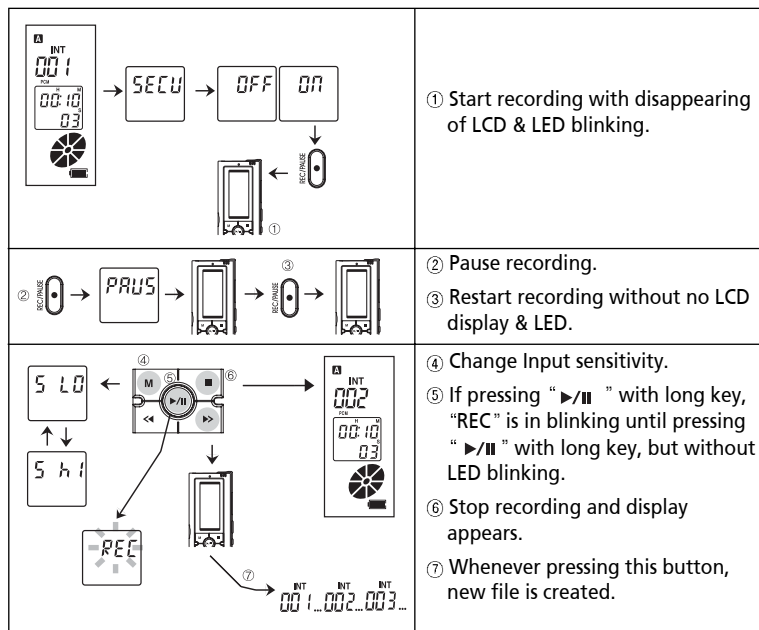
## ⑧ SECU(Security Recording)

While recording, LCD display & Red LED disappear, so that the others can't recognize it is recording. Additionally, it can save battery life as well.

Press “▶/||” in security recording. “REC”displayed.



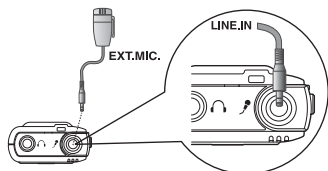
### • Key operation while recording in security mode.



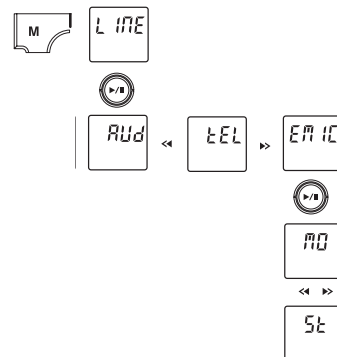
- Press "M" with long key => Move to "Adv" by "<< or >>" => Press "►/||" => Move to "SECU" => Press "►/||" => Select "ON" and then press "►/||"

### (3) Various Recording Methods

- ① Voice Recording thru Internal Mic.(Factory default)
- ② Voice Recording thru External Mic.

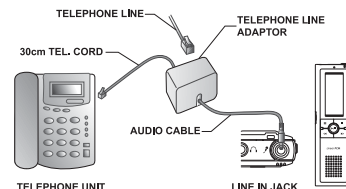


### ③ Voice Recording thru Telephone adaptor(Optional Accessory)



Press "M" with long key for setup.

- AUD: Recording thru Audio-in(Refer to Encoding Mode)
- Tel: Recording thru Telephone adaptor
- EMIC: Recording thru Ext. Mic
- MO: Mono Mic in Ext. mic
- St: Stereo Mic in Ext. mic



### ④ Recording FM Radio(Optional Feature)

- Refer to # 3. recording in "Quick Start Guide" on page of ~ about setup & how to operate.

### 2. Encoding Mode(EN Folder)



- This is for creating music file(s) in PCM or MP3 format, which is recorded in connection of external audio device such as MP3 player, audio component or CD, etc. and FM Radio.
- A created file is automatically stored at "EN" folder.

A created file in this mode is in stereo & higher(or equal) quality than a file recorded thru internal mic.

Format	PCM	HQ	SP	LP
Rec. Rate	44.1kHz/16bit	128 Kbps	96 Kbps	64 Kbps
Rec. Time(1GB)	1.5 hrs	17.4 hrs	23.2 hrs	34.8 hrs
<ul style="list-style-type: none"> <li>• PCM: Stereo</li> <li>• HQ, SP &amp; LP: MP3 format &amp; stereo</li> </ul>				

### ■ STOP Mode

All operations & setup procedures in STOP are in same as Voice Mode.

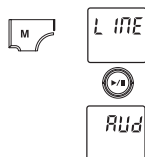
### ■ PLAY

All operations & setup procedures in PLAY are in same as Voice Mode.

### ■ Record Mode

#### (4) Preparation of recording

##### ① Connection & Setup

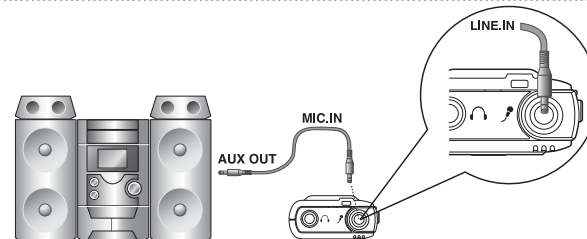


- Select Audio-in
- Press "M"=>Move to "Line" by "<<or>>" => Press ">||"=> Move to "Line" by "<< or >>" => Press ">||"

☞ Before operating, we recommend to set up a recording format & quality (PCM or MP3), ARS Mode, Sync. Time and Resume recording(RES) All operations & setup procedures in REC. are same as doing in Voice Mode.

##### ② How to operate

Connect with line-in cable to earphone jack on another audio player and to external mic. jack on the voice recorder.



Press "REC" button on the voice recorder and then play another audio player. Stop or pause Audio Player and then stop or pause the voice recorder.

- ☞ If Sync Time(Refer to the setup of "Advance" ) & ARS are set up in advance, automatically create each audio file by detecting the end & start of the file.
- ☞ In case of recording FM Radio, All operations & setup procedures are in same as Voice recording excepting recording format & quality. Please refer to #1. Voice Mode.

### 3. MP3 (MP3 Folder)



This folder is only for downloading files from the PC, so user may find out MP3 files easily to play back.

### ■ STOP Mode

All operations & setup procedures in STOP are in same as Voice Mode. Please refer to #1. Voice Mode.

### ■ PLAY

All operations & setup procedures in PLAY are in same as Voice Mode excepting setting up EQ as below. Please refer to #1. Voice Mode.

#### 4. FM(FM Radio Reception) (Optional Feature)

This is not a folder like A, B, C, D, EN or MP3, but one of main features to listen to radio program.

##### (1) FM Radio

Plug external FM antenna or earphone to earphone jack on the top of the device.

Move to "FM" by "M".

Select a desired radio station by "<< or >>".

☞ << or >> with short key: Increasing or decreasing frequency by a frequency step.

<< or >> with long key: Automatically searching radio station.

##### (2) Selecting band

User can select the band. USA, EU or JAPAN.

- USA: 87.5MHz-108.0MHz(100 step)

- EU: 87.5MHz-108.0MHz( 50step)

- Japan: 76.0MHz-108.0MHz( 100step)

While listening to Radio, Press "M" with long key. => "FM"=> Press "▶/■" => Move to a desired band by "<< or >>" => Select "Band" by pressing "▶/■"

##### (3) Preset

10 radio stations can be preset in advance.

Press "▶/■" with long key at a desired radio station to preset.

If so, preset no.01 will be in blinking with displaying a current preset radio station at #01.

Move to a desired preset # by "<< or >>" and then select by "▶/■".

☞ If going to a preset radio station, press "▶/■" with short key and then move to a desired preset #.

## Functions & Operation in Menu

In this section, user can learn more detail of setup for each mode(Voice, Encoding, MP3 and FM) and the voice recorder thru Menu(Press "M" button with long key.)

In addition, user may enjoy enhanced file editing features on the voice recorder itself without special editing program on the PC.

### 1. Mode

This menu is for selection of recording quality(PCM, HQ, SP or LP) in the recording.

#### 1) Recording format & quality

##### ① Voice Mode(A/B/C/D)

Format	PCM	HQ	SP	LP
Rec. Rate	44.1kHz/16bit	64Kbps	32Kbps	16Kbps

Input method(mono/default): Int. Mic, Ext. Mic, Telephone Adaptor

☞ If using Stereo Mic, recording time of PCM will be in half than mono mic recording.

However, recording time of HQ, SP, LP will be in same as mono recording.

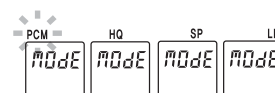
##### ② Encoding Mode(EN)

Format	PCM	HQ	SP	LP
Rec. Rate	44.1kHz/16bit	128Kbps	96Kbps	64Kbps

Input method(Stereo/default): Audio-in cable

### 2) Operation

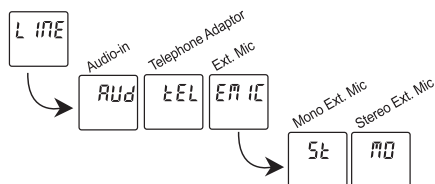
Mode => Press "▶/■" => A current format(PCM, HQ, SP or LP) is blinking => Move to a desired format by "<< or >>" => Press "▶/■" for selection => Press "■" to complete setup.



## 2. LINE

This menu is for selection of input method(Audio-in, Telephone adaptor, Ext. Mic). Default input method is internal mic., so if there is no connection of external input method in spite that one of those methods is selected, recording quality is in mono thru int. mic.

If each external input method is connected, proper option must be selected for better recording quality in this menu.



### 1) Operation

Line => Press "►/||" => Move to a connected ext. input method by "<< or ►►" => Press "►/||" for selection => Press "■" to complete setup(If selecting "EMIC" Press "►/||" and then select "mono" or "stereo" by "<< or ►►").

## 3. SENS(Input Sensitivity)

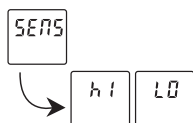
This menu is to set up an input recording sensitivity in internal mic, external mic or telephone adaptor.

### 1) Input Sensitivity Level

- ① High: Automatically control recording level to average sound level by detecting average sound level thru ALC(Automatic Level Control) technology. Input sensitivity is higher than the others.
- ② Low: Recording at original sound level.

### 2) Operation

SENS => Press "►/||" => Move to a desired Sensitivity(High, Low) by "<< or ►►" => Press "►/||" for selection => Press "■" to complete setup.



## (7) ARS(Automatic Recording System)

This is the feature to start recording automatically by recognizing sound and if no sound, pause( or Stop) the recording. According to sound or no sound, repeatedly record and pause(or Stop). With this feature, memory space, battery time can be saved by stopping or pausing.

The ARS functionality works in voice recording as well as Line-in recording.(external Audio device thru Line-in cable)

### 1) ARS Mode

OFF		ARS Off	Simply Record & Stop by "REC" & "Stop" button.
A MODE	ARS	Pause the recording if there is no sound for a certain time and then restart the recording if sound comes again.	Each recorded contents is recorded into one file.
B MODE	ARS-B		Each recorded contents is created into each individual file name.

☞ No sound detection interval can be set up at Sync.

### 2) Operation

Press "M" => Move to "ARS" => Press "►/||" => Press "<< or ►►" until displaying a desired option(ARS Off -> ARS -> ARS-B -> ARS off ..... ) => Select a desired ARS by pressing "►/||" => Complete setup by pressing "■".

☞ While setting, each option(ARS or ARS-B) is in blinking, but if completing setup, a selected option is displayed without blinking.

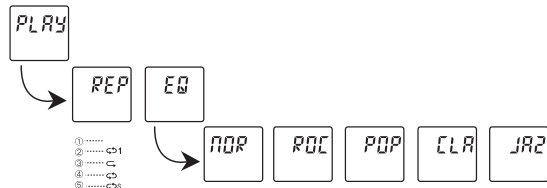
## 5. RES(Resume Recording)

When the recording restarts after pausing, first, replay a previous file for 30seconds and then record from the end of the paused point. This is good for making sure what the content was in previous recoding.

☞ If resume recording is set up, whenever pressing REC button it always proceeds in resume recording steps, so it may interrupt prompt recording in a urgent case, so we recommend to set it off after completing the recording in this mode.

- For more detail, please refer to ⑥ Resume Recording in "Functions & Operation in Each Folder"

## 6. Play



### 1) Rep(Repeat)

	<ol style="list-style-type: none"> <li>1) Play a selected file and then STOP</li> <li>2) Play a selected file repeatedly.</li> <li>3) Play all files one time and then STOP</li> <li>4) Play all files repeatedly</li> <li>5) Play in Shuffle</li> </ol>
--	--

### 2) EQ(Equalizer)

#### Setup EQ

While playing a file, EQ can be changeable by "REC/PAUSE" with short key. NORMAL->ROCK->POP->CLASSIC->JAZZ



EQ can be set up at Menu as well.

"M" with long key=> Move to Play by "<<" or ">>"=> Press ">||" => Move to EQ by "<<" or ">>"=> Press ">||" => Select a desired EQ(Normal->Rock->Pop->Classic->Jazz) then Press ">||" => "■" for competing setup.

## 7. MEN(Memory)

Internal memory or external memory can be selected in this mode.

Internal memory: Built-in flash memory

External memory: micro SD card

For more detail, please refer to 6. Storage in "Quick Start Guide" on the page.

## 8.TIME

In this menu, Date, the features related to time can be set up in this menu such as Time, Alarm & Timer recorder.

### 1) Set(Date & Time setup)

Initially, time & date on the recorder is 00:00:00 & 08:01:01, so it is necessary to set up current time & date for stamping an exact record on a recorded file and operating Alarm & Timer recorder proper.

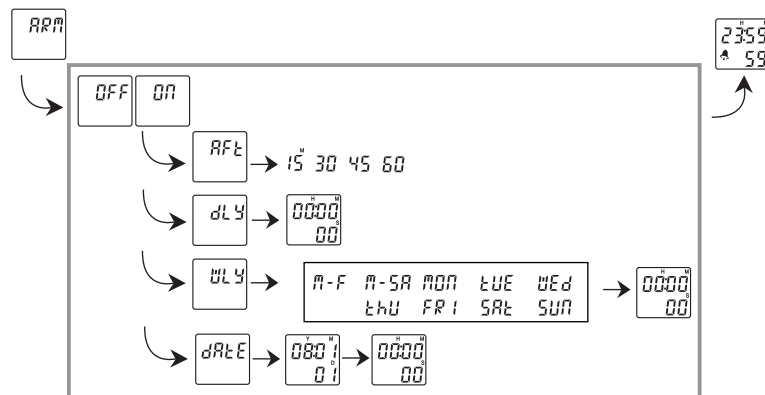
For more detail, please refer to 7. Time & Date setup in "Quick Start Guide" on the page.

### 2) ARM(Alarm)

Ring a cricket sound at a certain time or date to be set up based on one of below options.

If Alarm is set up, on the display, shows up.

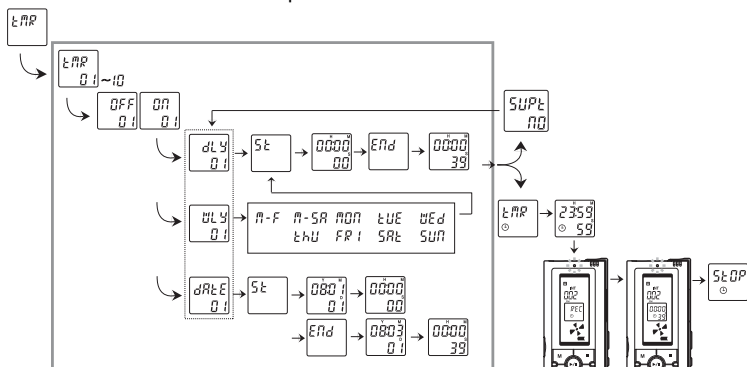
- 1) TIME(Time) : Alarm 15, 30, 45 or 60 minute later from the current time.
- 2) dLY(Daily) : Alarm at a specific time daily.
- 3) WLY(Weekly) : Alarm at a specific time on a Monday-Saturday or Monday- Friday or weekday.
- 4) dAtE(Date) : Alarm at a specific time and date.





Start recording at specific time period(set up starting and ending point) today, a weekday, weekly(Monday-Saturday or Monday-Friday) or a specific date.

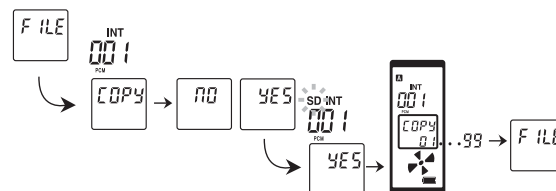
10 Timers are available to set up.



- If the ending time or date is same as the starting time or date, "SUPT NO" message shows up and then goes back to the starting display of the time set.
- In case of Timer is overlapped with the others in time, the fastest timer at starting time is in priority and the others won't work.
- Even if the recorder is in power off, it powers on and starts recording at the time to set up.
- After ending the recording at the ending time to set up, it stops recording automatically.
- If necessary to power off automatically after Timer recording, set up Auto Power Off.

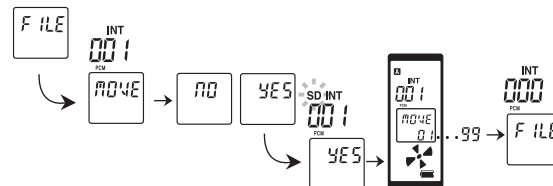
In this menu, user can manage files to copy, move or erase from internal memory to external memory or in reverse.

- Copy a current selected file to another memory storage (Internal or External memory).
- Internal memory -> External memory or External memory -> Internal memory
- A selected file is copied into same directory in the targeted storage.



- ☞ When selected “Yes”, the targeted storage will be in blinking. While copying, it shows how much copy is in proceeding.  
Only one file can be copied at a time.

- Move a current selected file to another memory storage (Internal or External memory).
- Internal memory -> External memory or External memory -> Internal memory
- A selected file is moved into same directory in the targeted storage.

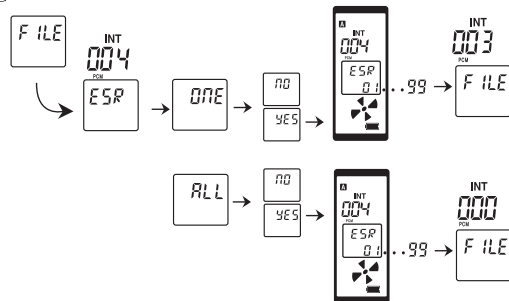


- ☞ When selected “Yes”, the targeted storage will be in blinking. While moving, it shows how much move is proceeding.
- ☞ Only one file can be moved at a time.
- ☞ After completing move, file number(index) will be decreased by one.

### 3) ERS (Erase)

Erase unnecessary file(s) to save memory storage.

- ① ONE: A selected file is erased.
- ② ALL: All files in the current folder are erased.



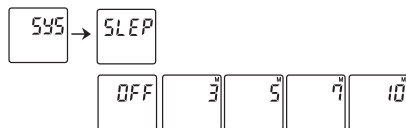
☞ To avoid erasing undesired file(s) by mistake, before erasing, a file and folder must be checked whether it is desired file or folder.

## 10. SYS(System)

### 1) SLEP(Sleep Timer)

This is a setup for saving battery power if there is no operation for a certain time(OFF, 3, 5, 7, 10minutes)

The function is only applicable at "STOP" mode.

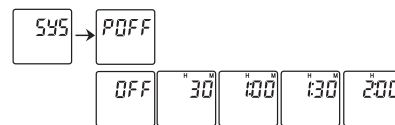


☞ It should be off if it is not necessary.

### 2) POFF(Automatic Power Off)

This is a setup to power off automatically after passing a certain time (30minute, 1hour, 1 and half hour, 2hours or Off) by compulsion.

The function is applicable at any mode.(Stop, Play, Rec. or FM)

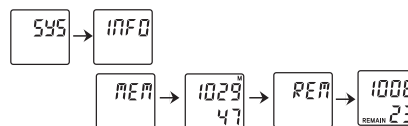


☞ It is not necessary to revert the setup to "Off" after execution. Only one time is applicable after setup and automatically it reverts to Off.

### 3) INFO(Memory Information)

Show up information about a current selected memory.

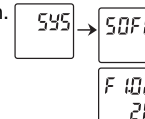
Total memory capacity(MEM) & Remain Free Space(REM)



☞ It is possible to go to the next step by either "▶/||" or "◀◀ or ▶▶".

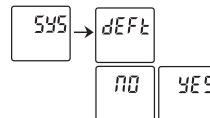
### 4) SOFT(Firmware Version)

Show up the firmware version.

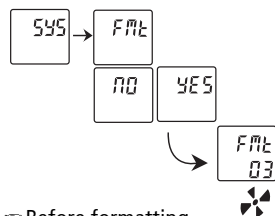



### 5) dEFt(Default)

Revert all set values to factory default values.



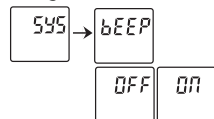
Format a selected memory storage.



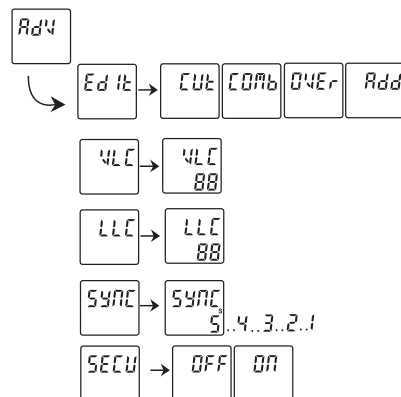
 Before formatting,

- Check whether the selected memory storage is correct to be formatted.
- Back up the datum to other storage, all datum in the storage will be removed and not be able to recover if formatting.

Set up sound On or Off when pressing button. Each button has different sound to recognize operation easily for a handicapped person or operating under any though environment not to take a look at the display.




With this menu, user may perform an advanced task rather than doing with normal voice recorder.



Any set value in this mode is retrieved to factory default when turn-off.

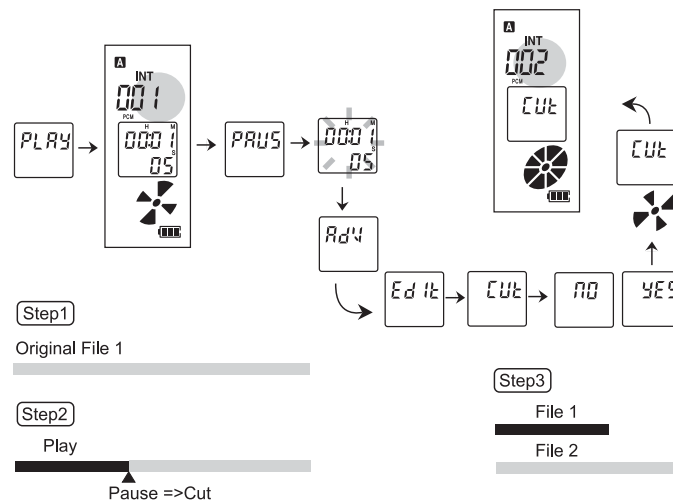
- It is possible to edit a recorded file in the voice recorder just after recording.
- Voice file(in A/B/C/D) & Encoding file(in EN) are applicable.

 Please back up an original file before editing to prevent the file from damage or modification.

While editing, do not remove micro SD card or power off not to make any damage to the file.

① **Cut(Cut)**

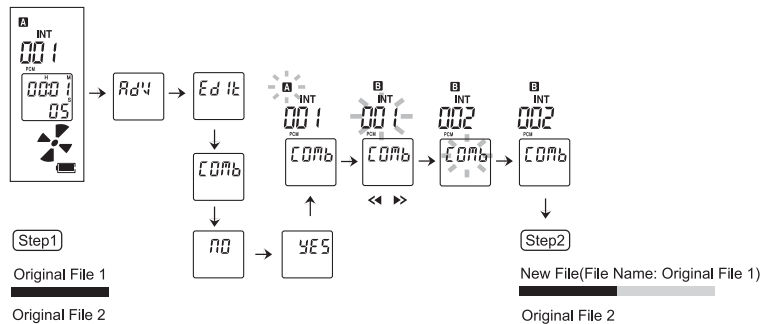
Divide a file into 2 files.





## ② COMb(Combine)

Combine 2 files into 1file.

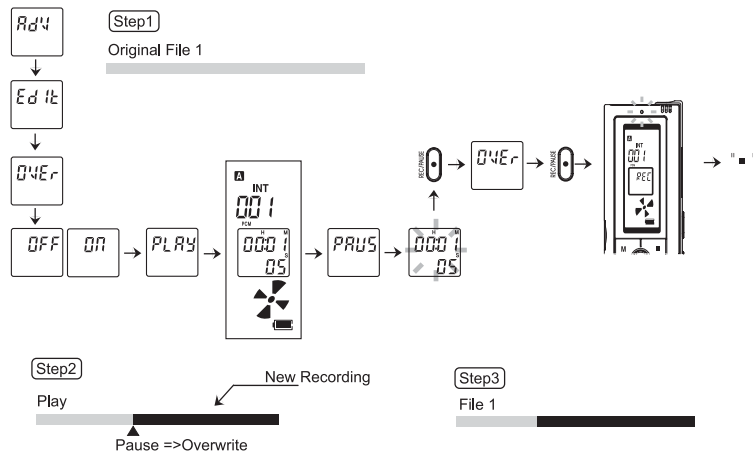


Even if 2nd file is combined to 1st file, 1st original file is remained in original file in the same folder.

To combine 2 files into 1 file, both file must be in same bit rate & format.

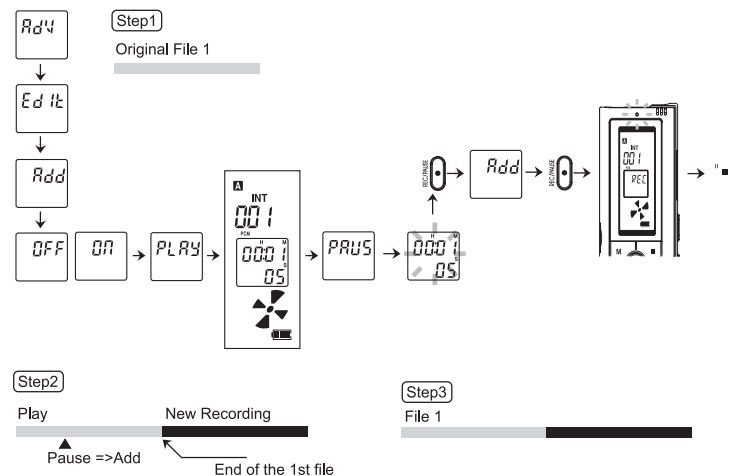
## ③ OVEr(Overwriting)

New recording content overwrites a current selected file from a paused point. The rest of contents in the selected file will be removed by overwriting new contents.



## ④ Add

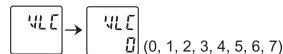
Add new recording at the end of the current selected file.



## 2) VLC(Voice Level Control)

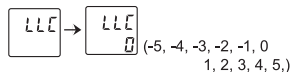
In case of recording thru int. mic, ext. mic and telephone adaptor, recording volume can be adjustable at this function.

It should be set up before recording.



## 3) LLC(Line Level Control)

In case of recording thru line-in, recording volume can be adjustable at this function.

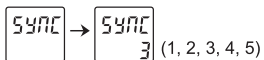


#### 4) Sync

It is for detecting time in no sound interval when creating new track in recording thru int. mic, ext. mic, telephone adaptor & line-in.

Default time in no sound is 3seconds.(1,2,3,4,5 seconds)

When recording in ARS, it should be set up before starting the recording to detect no sound interval.



#### 5) SECU(Security Recording)

While recording, LCD display & Red LED disappear, so that the others can't recognize it is recording. Additionally, it can save battery life as well.

## Upgrading Firmware

By upgrading the firmware, the user can improve performance of the voice recorder and correct errors in the recorder.

The user can download free firmware upgrade files from the web site of Diasonic Technology or an indicated website.

### ■ How to upgrade

- ① Access to the website and check the latest firmware version.
- ② Download the firmware to PC (or voice recorder if it is connected).
- ③ Copy the firmware to root directory in the voice recorder.
- ④ Disconnect USB cable.
- ⑤ Power off(If the battery remains in the voice recorder.) and On again.
- ⑥ The latest firmware is upgraded automatically.
- ⑦ Check the firmware version. (Press "M" with long key=>Sys=>SOFT)

☞ Before upgrading the firmware, we recommend to back up the data in the voice recorder.

## Management of Folder & File

If connecting the voice recorder to PC, it is automatically recognized as "USB Mess Storage Device". Music and Reorder folders will be created if any other folder is not created. User can transfer a music file(s) and store any data file from the PC as well as making, reading, writing, removing file or folder or formatting.

### 1. Folder

#### (1) Music Folder

Music file can store as many as the memory space is available, but 999 files can be displayed on the LCD. The stored file can be played at MP3 folder.

#### (2) Recorder Folder

Recording file is stored at this folder and A, B, C, D & Encode folder are automatically created as a subfolder according to recording to A, B, C, D & Encode.

##### ① Voice Folder(A/B/C/D)

Each folder can create 256files and if the file number is over than 256 files, it is stored to the next folder automatically.

##### ② Encode Folder

The file recorded from FM radio and External devices is stored at this folder.

256 files can be created.

### 2. File Format

	Folder(Mode)	File Index	Date	Time	Recording format
Voice File	VA	000	000000	000000	PCM(or MP3)
Audio File	VL	000	000000	000000	PCM(or MP3)
FM File	VF	000	000000	000000	PCM(or MP3)

Ex) VA001\_080712\_081223.PCM

Recording file thru Voice recorder\_2008/July/12\_08:12:23.PCM format

## Trouble Shooting

When a breakdown is suspected, please check the following:

Symptom	Check Point	Trouble Shooting
The power is off.	Check if the hold switch is On.	Move the hold switch to Off .
	Check the battery state.	Replace the battery.
	Check the battery Polarity.	Check the polarity of the battery.
The player suddenly stops.	Remove the battery.	Insert the battery again.
The adapter does not function.	Check if the adapter is correctly connected to the outlet.	Correctly connect the adapter to the outlet.
	Check if the suitable input power is supplied.	Connect the adapter to an outlet with designated voltage.
	Check if DC port is correctly connected.	Correctly connect the DC port to the outlet.
Recording is not made.	Check if the hold switch is in On position.	Move the hold switch to Off switch.
	Check if there are already 256 recorded files in each folder.	Delete unnecessary files after back-up.
	Check the remaining memory capacity.	Delete unnecessary files.
	Check the remaining battery state.	Replace the battery.
Recording from an external microphone is not made.	Check if EMIC is set up at Line-in menu.	EMIC should be selected.
	Check whether the external microphone is mono or stereo.	Set proper the external microphone type.
Recording from an external device is not made.	Check if Audio is set up at Line-in menu.	Audio should be selected.
Recording from a telephone or mobile phone is not made.	Check if TEL is set up at Line-in.	TEL should be selected.
The ARS does not function.	Check if the ARS is set Yes in the menu.	Set the ARS Yes.
	When the audio volume is to low, the audio will not be recorded.	Move the internal or external microphones close to the recorder. Increase the volume of the external device.
The player does not play the audio.	Check if there is a recording file or music file.	Check the number of files in the current mode.

Symptom	Check Point	Trouble Shooting
The speakers do not generate sound.	Check whether the earphones are connected.	Disconnect the earphones.
The earphones do not generate sound.	Check whether the earphones are connected.	Connect the earphones.
The player does not receive radio broadcasting.	The FM radio reception is poor in the frequency shadow areas, inside the building, in the subway, and on a moving vehicle.	The device and the earphones function as antennas. Move the device and earphones for better reception.
Automatic connection is not made to the PC.	Check if the USB cable is correctly connected to the player.	Correctly connect the USB cable to the player.
Files recorded in the PC are not played.	Check if audio player is installed.	Install Windows Media Player or another player.
Music and Record folder disappeared on the PC	Over Entry q'ty	Remove unnecessary file on the root directory.
"Full" "F" is displayed.	Over the Max. file q'ty in current folder	Remove unnecessary file in the folder.
"Full" "D" is displayed.	Full the memory capacity.	Remove unnecessary file or data.
"SUPT" "NO"	The function does not work in a current selected mode.	Change Mode.
	Impossible to set up Timer or Alarm time setup.	There is an overlapped time setup.
	File is not combined.	Both files are in different quality.
"NOSD"	Check if SD card is inserted.	Insert SD card properly.
"bAtt" "LO"	Check Battery Status(Low Battery)	Change Battery.

## General Specification

MODEL		Linear PCM Voice Recorder			
MP3 bit rate		16,24,32,44.1,48KHz(16-320KBPS)			
WMA bit rate		48KHz(10-320KBPS), 44.1KHz(10-320KBPS)			
S/N ratio		100dB			
Distortion		1.0% ± 0.2			
Frequency		20Hz ~ 20KHz (-6dB)			
Earphone Output		4mW			
Speaker Output		300mW			
VOICE Recording	Format	PCM	MP3	MP3	MP3
	Mode	PCM	HQ	SP	LP
	Quality	44.1K 16BIT MONO	64KBPS MONO	32KBPS MONO	16KBPS MONO
Audio Recording	Format	PCM	MP3	MP3	MP3
	Mode	PCM	HQ	SP	LP
	Quality	44.1K 16BIT STEREO	128KBPS STEREO	96KBPS STEREO	64KBPS STEREO
FM Radio		World wide : 87.5 ~ 108MHz/EU:87.5 ~ 108MHz/Japan wide : 76 ~ 108MHz			
PC Interface	Interface	USB 2.0			
	OS	Windows ME, Windows 2000, windows XP, Windows Vista, More than MAC OS X 10.2			
AC/DC Adaptor		DC4.5/300mA			
Battery		AAA Alkaline Battery(2pcs) 3V			
Size		H 100 x W 31 x D 14			

## Product Warranty

### ● Warranty (Service Policy)

Free repair services will be provided in compliance with the free repair policy of DIASONIC Technology. If a breakdown occurs during the warranty period, bring the product with the warranty card to the sales agency or the service center of DIASONIC Technology. Free repair service will be provided only when the purchase date and the name of the sales agency appear on the warranty card. Please check all information is written when purchasing the product from the sale agency. The warranty card is not issued again, so we recommend you keep it safe.

### (Free Repair Policy)

1. This product has passed strict quality control and inspection.
2. Breakdowns occurring under normal operating conditions described in the user manual within the warranty period will be subject to free repair services.
3. For the following cases, some service fees will be charged:
  - 1) When the customer fails to submit the warranty card
  - 2) When information is missing in the warranty card - purchase date or the name of the sales agency
  - 3) When the product is damaged or broken down due to user's mishandling
  - 4) When the product is damaged or broken down due to user's repair or remodeling
  - 5) When the product is damaged or broken down due to fires, pollution, earthquakes, and other natural disasters
  - 6) When the product is damaged or broken down due to leakage of the battery
  - 7) When the consumable parts such as a battery need to be replaced
4. This warranty card is valid only for the service in Korea.

### (Request for Mailing)

Please beware of the following when sending the product by mail:

1. Please enclose the warranty card with the product when mailing during the warranty period.
2. Please wrap in shock-absorbing materials and put the product in a box to prevent damage during transportation. Mailing fees and wrapping costs are to be born by customers.
3. To prevent loss, please send the product for repair services by registered mail.

## Warranty Card

Product: Voice Recorder

Model: DDR-5300

Warranty Period: One Year

Purchase Date: \_\_\_\_ / \_\_\_\_ / \_\_\_\_

Purchaser	Name	
	Address	
	Telephone	
Seller	Name	
	Address	
	Telephone	

- Please contact the sales agency or customer center of DIASONIC Technology Co., Ltd. for breakdown of the product.
- Exchange, (charged or free) repair services, refund, and part-keeping periods comply with regulations of the customer protection act.
- For questions or more information about the product, contact the customer center of DIASONIC Technology Co., Ltd.

### Diasonic Technology Co., Ltd

Address: 321-43, Seoksu-dong, Manan-gu, Anyang-si, Gyeonggi-do (430-040), South Korea

The warranty card is only valid in Korea. Please keep this card for free repair services.

